## SAMSUNG

SAMSUNG LASER PRINTER
User's Guide

SMMSUNG DIGITall
everyone's invited ${ }^{m}$

## LASER PRINTER

## ML-6040

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## Environmental and Safety Consideration

## Laser Safety Statement

The printer is certified in the U.S. to conform to the requirements of DHHS 21 CFR, chapter 1 Subchapter J for Class I(1) laser products, and elsewhere, is certified as a Class I laser product conforming to the requirements of IEC 825.

Class I laser products are not considered to be hazardous. The laser system and printer are designed so there is never any human access to laser radiation above a Class I level during normal operation, user maintenance, or prescribed service condition.

WARNING
Never operate or service the printer with the protective cover removed from Laser/Scanner assembly. The reflected beam, although invisible, can damage your eyes.


CAUTION
INVISIBLE LASER RADIATION WHEN THIS COVER OPEN. DO NOT OPEN THIS COVER.

VORSICHT - UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN.
$\begin{aligned} \text { ATTENTION } & \text { - RAYONNEMENT LASER INVISIBLE EN CAS D'OUVERTURE.EXPOSITION DAN } \\ & \text { GEREUSE AU FAISCEAU. }\end{aligned}$
ATTENZIONE -RADIAZIONE LASER INVISIBILE IN CASO DI APERTURA. EVITARE L'ESPOSIZIONE AL FASCIO.
PRECAUCION -RADIACION LASER IVISIBLE CUANDO SE ABRE. EVITAR EXPONERSE AL RAYO.
ADVARSEL. - USYNLIG LASERSTRÅLNING VED ÅBNING NÅR SIKKERHEDSBRYDERE ER UDE AF FUNKTION. UNDGÅ UDSAETTELSE FOR STRÅLNING.
ADVARSEL. - USYNLIG LASERSTRÅLNING NÅR DEKSEL ÅPNES. STIRR IKKE INN I STRÅLEN. UNNGÅ EKSPONERING FOR STRÅLEN.
VARNING - OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPAND OCH SPÄRREN ÄR URKOPPLAD. BETRAKTA EJ STRÅLEN. STRÅLEN ÄR FARLIG.
VARO! - AVATTAESSA JA SUOJ ALUKITUS OHITETTAESSA OLET ALTTIINA NÄKYMÄTTÖMÄLLE LASERSÄTEILYLLE ÄLÄ KATSO SÄTEESEEN.

## Ozone Safety



During normal operation, the ML-6040 printer produces ozone. The ozone produced does not present a hazard to the operator. However, it is advisable that the machine be operated in a well ventilated area.

If you need additional information about ozone, please contact your nearest Samsung dealer.

## Pow er Saver



This printer contains advanced energy conservation technology that reduces power consumption when it is not in active use.

When the printer does not receive data for an extended period of time, power consumption is automatically lowered.

The energy star emblem does not represent EPA endorsement of any product or service.

## Radio Frequency Emissions

## FCC Declaration of Conformity

## 1. Product Name

: Laser Printer
2. Model Number
3. FCC Rules
: Samsung ML-6040
: TESTED TO COMPLY WITH FCC PART 15 CLASS B
4. Operating Environment : FOR HOME OR OFFICE USE

## 5. FCC Compliance Statement

This device complies with Part 15 FCC rules. Operating is subject to the following two conditions: (1)This device may not cause harmful interference, and
(2)This device must accept any interference received, including interference that can any cause undesired operation.

## 6. Information to User

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
(1) Reorient or relocate the receiving antenna.
(2) Increase the separation between the equipment and receiver.
(3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
(4) Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

## Party Responsible for Product Compliance

Samsung Electronics America
American QA Lab
85 West Tasman Dr.
San Jose, CA 95134

## Canadian Radio Interference Regulations

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Industry and Science Canada.

Cet appareil numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe B prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques", ICES-003 édictée par I'Industrie et Sciences Canada.

## EC Declaration of Conformity

We,
SAMSUNG ELECTRONICS CO., LTD.
\#259, Gong Dan-Dong, Gumi-City, Kyung Buk, Korea
declares sole responsibility that the
Samsung ML-6040 Laser printer
meets the intent of Directive 89/336/EEC for Electromagnetic Compatibility and Low Voltage Directive 73/23/EEC.
Compliance was demonstrated to the following specifications as listed in the official journal of the European Communities:

EN 50081-Emissions:
EN 55022 Radiated, Class B
EN 55022 Conducted, Class B
EN 61000-3-2 Power Harmonics
EN 61000-3-3 Voltage Fluctuations and Flicker
EN 55024-EMS:
EN 6100-4-2 Electrostatic Discharge
EN 6100-4-3 RF Electromagnetic Field
EN 6100-4-4 Fast transients
EN 6100-4-5 Surges
EN 6100-4-6 RF Common mode
EN 6100-4-11 Voltage Dips and Interruptions
EN 60950-Safety

# Introduction 

Congratulations on the purchase of your ML-6040 printer! This chapter provides information on the following topics:

- Special Features
- Printer Components


# Special Features 

Your new Samsung ML-6040 printer is equipped with special features that improve print quality, giving you a competitive edge. You can:

Print with excellent quality and high speed

- You can Print at $\mathbf{6 0 0}$ dots per inch (dpi). See page 5.18.

6UU:\#\#\#

- Your printer can print 12 pages-per-minute.

Flexible paper handling

- Standard 270-sheet input tray (Auto Tray) supports all standard sizes of paper.
- A 1-sheet Manual Tray supports envelopes, labels, transparencies, custom-sized media, postcards, and heavy paper.
- Your printer has two output trays: Select either the top facedown output or the rear face-up output tray for the most convenient access.
- You can use a straight-through paper path from the Manual Tray to the rear output tray.

Create professional documents

- Customize your documents by using Watermarks such as "Confidential." See page 5.21.
- You can print Booklets. This feature enables you to easily print the pages required to create books. Once printed, all you have to do is fold and staple the pages. See page 5.13.
- You can print Posters. The text and pictures of each page of your document are magnified and printed across the selected sheet of paper. After the document has printed, trim off the white edges of each sheet. Tape the sheets together to form a poster. See page 5.16.

Save time and money


- You can use the Toner Save mode to save toner supply. See page 5.6.
- Your printer allows you to print on both sides of the paper to save paper (Manual Duplexing). See page 5.7.
- Your printer allows you to print multiple pages on a single sheet of paper to save paper ( $\mathbf{N}$-Up printing). See page 5.10.
- Preprinted forms and letterheads can be printed on plain paper (Page Overlay). See page 5.24.
- One-touch last page printing is available when the printer is in ready mode. See page 5.30.
- The Samsung ML-6040 printer meets Energy Star guidelines for energy efficiency.

Print in various environments

- You can print in Windows 95/ 98/ Me/ 2000/ NT 4.0.
- Your printer supports Linux and Macintosh.
- ML-6040 printer comes with Parallel and USB interface.


## Printer Components

## Front View



## Rear View



# Setting Up Your Printer 

This chapter provides step by step information on setting up your printer. Topics included in this chapter are:

- STEP 1: Unpack Your Printer
- STEP 2: Install the Toner Cartridge
- STEP 3: Load Paper
- STEP 4: Connect to the Computer with a Parallel Cable
- Step 5: Turn on the Printer
- STEP 6: Print a Demo Page!
- STEP 7: Install the Printer Software
- Installing Software from Diskette


## Unpack Your Printer

1 Remove the printer and all accessories from the packing carton. Make sure that your printer has been packed with the following items:

## Notes:

- If any items are missing or damaged, notify your dealer immediately.
- Components may differ from one country to another.


IEEE 1284-compliant printer cable

2 Carefully remove all packing tapes from the printer.


## Install the Toner Cartridge

1 Open the top cover lid. Pull up on the handle to open the lid.


2 Carefully tear one end of the plastic bag.
Don't use a knife or other sharp objects as they might scratch the drum of the cartridge.

3 Locate the sealing tape at the end of the toner cartridge. Carefully pull the tape completely out of the cartridge. Discard the tape.

4 Gently shake the cartridge from side to side to distribute the toner evenly inside the cartridge.

## CAUTION:

To prevent damage, do not expose the toner cartridge to light for more than a few minutes. Cover it with a piece of paper if left exposed for more than a few minutes. If toner gets on your clothing, wipe it off with a dry cloth and wash clothing in cold water. Hot $w$ ater sets toner into fabric.


5
Locate the cartridge slots inside the printer, one on each side.


6 Grasp the handle and insert the cartridge in the printer until it snaps in place.


7 Close the top cover. Make sure that the cover is securely closed.


Note: When printing text at 5\% coverage, you can expect a toner cartridge life of approximately 6,000 pages ( 3,000 pages for the toner cartridge that is shipped with the printer).

## Load Paper

1 Pull the paper tray out of the printer.


2 Push down on the metal paper lift plate to lock it in place.


3 Load paper with the print side facing down.


Make sure that all four corners are flat in the tray.


4 Make sure that the stack goes under the metal retaining clip (A) and the plastic tabs on the end guides. Pay attention to the paper limit mark on the left inside wall of the tray. Paper overloading may cause paper jams.

Note: If you want to change the paper size in tray, refer to "To Change Paper Size in Tray" below.


2

5
Slide the tray back into the printer.


## To Change Paper Size in Tray

1 Adjust the tray for different paper sizes by sliding the appropriate paper length guide to the desired position.


- For legal, folio, or paper, use the the back guide.

- For letter, executive, A4, JIs B5, A5, or A6 size paper, use the the front and back guide.


2 After loading paper, squeeze the width guide as shown and slide it to the left until it lightly touches the paper stack.


## Notes:

- Do not push the width guide far enough to cause the media to warp.
- If you do not adjust the width guide, it may cause a paper jam.



## Connect to the Computer with a Parallel Cable

1 Make sure that both the printer and the computer are turned off.

2 Plug the parallel printer cable into the connector on the back of the printer.

Push the metal clips down to fit inside the notches on the cable plug.

3 Connect the other end of the cable to the parallel interface port on your computer, and tighten the screws.

See your computer documentation if you need help.


2

If you are using a USB interface
Go to "Using Your Printer with a USB Cable" on page A. 10 .

## Turn on the Printer

1 Plug the power cord into the power receptacle on the back of the printer.

2 Plug the other end into a properly grounded AC outlet.

3 Turn on the power.


## Print a Demo Page!

As the printer powers up, all the printer control panel lights turn on briefly. When only the Data light remains on, press and hold the Demo button.

Hold the Demo button down until all the lights blink (for about 2 seconds) and then release. The demo page will print.


The demo page provides a sample of the print quality to help you verify that the printer is printing correctly.


You can print the configuration sheet which lists many of the current settings and properties of the printer by pressing and holding Demo for about 6 seconds while the printer is in the ready mode.


Included with your printer is a CD-ROM containing the printer drivers for some of the most popular Windows software applications. To operate your printer, you must install a printer driver, which translates data from your application into data that the printer understands.

The CD-ROM shipped with your printer contains the following:

- GDI printer driver for Windows. Use this driver to take full advantage of your printer's features.
- USB driver for the USB interface to allow you to print with a USB cable.
- Printer driver for Macintosh to allow you to use your printer with a Macintosh.
- Linux driver for Linux to allow you to use your printer in Linux.

If you are printing from a computer with a parallel cable
Go to page 2.10 for information on installing the printing software on a computer that is attached directly to the printer with a parallel cable.

If you are printing with a USB cable
Go to "Using Your Printer with a USB Cable" on page A.10, for information on installing the print software on a USB-enabled computer.

If you are printing from a Macintosh
Go to "Using Your Printer with Macintosh" on page A.16, for information on installing the printer driver for Macintosh.

If you are printing from the Linux system
Go to "Linux Driver Installation" on page A.23, for information on installing the Linux driver for printing in the Linux system.

## Before Installing the Printer Softw are

Verify the following:

- At least $\mathbf{1 6}$ MB or more of RAM is installed on your PC.
- There is at least $\mathbf{3 0} \mathbf{~ M B}$ of free disk space on your PC.
- All applications are closed on your PC before beginning installation.
- Windows 9x, Windows Me, Windows 2000 or Windows NT 4.0.


## Installing the Printer Softw are from the CD-ROM



1 Place the CD-ROM in the CD-ROM drive. Installation will start automatically.

If the CD-ROM drive does not automatically run:
Select Run from the Start menu, and type $\mathbf{x}: \backslash$ cdsetup.exe in the Open box (where $\mathbf{x}$ is the drive letter for the CD-ROM drive), then click OK.

Note: If the New Hardware Found box appears during the installation procedure, click the $\boxtimes$ in the upper right corner of the box, or click Cancel.


2 When the opening screen appears, select the appropriate language.

3 Click Install the Samsung Software on your PC.


## 4 The Welcome window opens. Click Next.

| Welcenes |  |
| :---: | :---: |
|  | Welcone is the SamangML-6040 Series Driver Setup progen This puogrow wintal Savoung M. 6040 Serien Diver onyour compuler. |
| Installation | R is mongly recommended that you eat al Whidoesp progans befoe rurring thin Sehup poogwn |
|  | Dich. Cancel to qui Selup and hen dest ary progant pou have rurring Clak Ned to corfirie whe the Seop progish |
|  | W4PNRA: This progen is puctocled by copyight las and intemational lieates |
|  | Unsuthrieed seprodicion or ditibution the peggen of ay porion of \& may repit in teveve cinl and crimind penshiss, and Nil te parsocutad to the nowinur edent porable under low |
|  | Hets Concel |

5 The files are copied into the appropriate directory.

6 Click Finish.


## Softw are Installation Tips

I do not have a CD-ROM drive

If you have access to another computer with a CD-ROM drive, you can use the make diskette utility in Windows to create the disks you need for the installation. Go to "Installing Software from Diskette" on page 2.15.

How do I remove the printing software?

In Windows, after installation, the Uninstall icon in the ML-6040 series program group allows you to select and remove any or all of the Windows ML-6040 printing system components.

## To uninstall the printer software:

1 From the Start menu, select Programs.

2 Select Samsung ML-6040 Series, and then Samsung ML-6040 Series Driver Uninstall.


3 When your computer confirms your selection, click Yes.

4 The Samsung ML-6040 Series printer driver and all of its components are removed from your computer.


5 Click OK.

How do I access printer features?

If you have problems installing

Some printer features, such as paper size and page orientation, may be available through your application settings. Use application settings, if available, because they override printer driver settings.

Access advanced printer features through your printer driver. See Chapter 5, "Printing Tasks" for instructions on using your printer driver features.

- Exit your software programs. Then turn off the computer and the printer. Turn on the printer and the computer.
- Close any virus protection programs that are running on your computer.
- Uninstall the printer software following the instructions on page 2.12, then repeat the installation procedure.


## Installing Software from Diskettes

If you do not have a CD-ROM drive but you have access to another computer with a CD-ROM drive, you can copy software installation files from your printer software CD-ROM onto floppy diskettes, abd then use the diskettes instead of the CDROM to install the software.

## Making Installation Diskettes

You can make installation diskettes for the ML-6040 printer driver. Make sure that you have several formatted diskettes ready, and then follow these steps:

1 Insert the CD-ROM shipped with your printer into the
 CD-ROM drive. Installation will start automatically.

If the CD-ROM drive does not automatically run:
Select Run from the Start menu, and type $\mathbf{x}: \backslash$ cdsetup.exe in the Open box (where $\mathbf{x}$ is the drive letter for the CD-ROM drive), then click OK.

2 When the opening screen appears, select the appropriate language.

## 3 Click Make your own Diskette set of software.



4 The Copy to Floppy dialog box appears.
Select the floppy disk drive you will use to insert the diskette.


## 5 Click Copy all disk images.

If you want to copy a portion of the selected component, select the disk you want to copy in the Disk Images window, then click Copy selected disk image.

6 When prompted, insert a blank, formatted diskette into the floppy drive, and click Yes to copy the first diskette. For multiple diskettes, when the first diskette is finished, you are prompted to insert disk 2.

Make sure you label each diskette in order of creation: ML-6040 printer driver, disk 1 of 2, etc.

7 If you have more than one disk, insert the next disk and click Yes. Repeat this step for a third disk if necessary.

8 When copying to diskettes has been completed, click Close in the Copy to Floppy dialog box. Then click Exit in the SAMSUNG PRINTER SETUP dialog box.

## Installing Softw are

To install the print software from the diskette, take the following steps:

1 Insert the first diskette (if you have more than one selected software diskette).

2 From the Start menu, select Run.


3 Type A: $\backslash$ setup.exe in the Open box and click OK. (if your floppy drive is not $\mathbf{A}$, substitute the correct letter.)

4 Follow the on-screen instruction to complete the installation.

## Using Control

## Panel

This chapter describes how to use the printer's control panel. It provides information on the following topics:

- Control Panel Buttons
- Control Panel Lights


## Control Panel Buttons

The printer has three buttons: Cancel/ Reprint, Demo and Toner Save.


Cancel/Reprint

## Cancel job

Press Cancel/ Reprint and hold until the control panel lights blink to cancel a job the printer is currently printing. The Error light will blink while the print job is cleared from both the printer and the computer, and the printer will then return to the ready mode. This may take some time, depending on the size of the print job.

Note: If the Cancel/Reprint button is accidentally pushed, the job must be reprinted. There is no undo function.

## Reprint last page of the job

If you press Cancel/ Reprint in the ready mode, the printer prints the last page of the last print job. For further information, see page 5.30.

## Print demo page and configuration sheet

Press and hold Demo for about 2 seconds until the control panel lights blink slowly to print a demo page. The printer must be in the ready mode.

Press and hold Demo for about 6 seconds until the control panel lights blink rapidly to print a configuration sheet. The printer must be in the ready mode. For further information, see page 2.8.

## Start manual feeding

When you select Manual for Paper Source from your software application, you should press Demo each time you feed a sheet of paper manually. For further information, see page 4.7.

## Cleaning the inside of the printer

Press and hold Demo for about 10 seconds until the control panel lights remain illuminated to automatically clean the inside of the printer. After cleaning the printer, one cleaning sheet prints. For further information, see page 6.5.

Toner Save
(on)

Toner Save

(off)

## Toner Save

Press Toner Save to turn the toner save mode on or off. The printer must be in the ready mode.

- If the button backlight is on, toner save mode activates and the printer uses less toner to print a document.
- If the button backlight is off, toner save mode is disabled and you will print in normal quality.

For further information on the Toner Save mode, see page 5.6.

## Control Panel Lights

The control panel lights indicate the status of your printer. If the Error light is on, the printer is experiencing an error. See "Troubleshooting Error Messages" on page 7.19.


## Light status legend

O symbol for "light off"

- symbol for "light on"
symbol for "light blinking"


## Control Panel Light Message

| Error | Ready Mode |
| :--- | :--- |
| Manual | The Datal................. |
| Paper is on and the printer is ready to print. |  |


| Error | Processing |
| :--- | :--- |
| Manual | The printer is receiving or processing data. Wait for the |
| Paper | job to print. |
| Pressing the Cancel/ Reprint button cancels the |  |
| current job. One or two pages may print as the printer |  |
| Data | clears the print job. The printer will return to the ready <br> mode after the job has been canceled. |

## Data

The Data light blinks rapidly. Data is in the printer memory waiting to be printed.

Pressing the Cancel/ Reprint button cancels the current job and the printer returns to the ready mode.

| Error | Paper out |
| :--- | :--- |
| 0 | The printer is out of paper. The Paper light blinks until |
| Manual | paper is added. |
| Paper | Load paper into the printer. There is no need to press |
| 0 | any button to reset. |

## Manual feed mode

The printer is set to Manual mode for the paper source. You have to feed paper manually through the Manual Tray. If you do not want to be in the Manual Feed mode, change the setting from your printer properties. For details on the Manual mode, see page 4.7.


## Print Media

This chapter will help you understand what kind of paper you can use with the ML-6040 printer and how to properly load paper in the different paper trays for the best print quality.

Topics included in this chapter are:

- Choosing Paper and Other Media
- Selecting Output Tray
- Loading Paper
- Printing on Envelopes
- Printing on Heavy Paper
- Printing on Labels
- Printing on Transparencies
- Printing on Preprinted Paper
- Printing on Card Stock or Custom-sized Media


## Choosing Paper and Other Media

You can print on a variety of print media, such as plain paper, envelopes, labels, transparencies, card stocks and so on. See "Paper Specifications" on page A.2. To get the best possible print quality, use only high-quality copier-grade paper.

When you choose print media, consider the following:

- Desired outcome: The paper you choose should be appropriate for the project.
- Size: You can use any size paper that fits easily within the paper adjusters of the paper tray.
- Weight : Your printer supports paper weight as follows:
- 16~28 lbs bond for Auto Tray
- 16~53 lbs bond for Manual Tray
- Brightness: Some papers are whiter than others and produce sharper, more vibrant images.
- Surface smoothness: The smoothness of the paper affects how crisp the printing looks on the paper.
- Opacity: Opacity refers to the degree to which printing on one side of the paper shows through the other side. Use paper high in opacity (or thicker paper) for two-sided (duplex) printing.

Always test a sample of paper before purchasing large quantities.

CAUTION: Using media that does not conform to the specification listed in the paper specification can cause problems that may require service. This service is not covered by the warranty or service agreements.

## Media Sizes and Capacities

| Media Size | Input Source/ Capacity* |  |
| :---: | :---: | :---: |
|  | Auto Tray | Manual tray |
| ```Plain Paper Letter (8.5 x 11 in.) Legal (8.5 x 14 in.) Executive (7.25 x 10.5 in.) Folio (8.5 x 13 in.) A4 (210 x 297 mm) JIS B5 (182 x 257 mm) A5 (148 x 210 mm) A6 (105 x 148 mm)``` | $\begin{aligned} & 270 \\ & 270 \\ & 270 \\ & 270 \\ & 270 \\ & 270 \\ & 250 \\ & 250 \end{aligned}$ | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ |
| Envelopes <br> No. 10 ( $4.12 \times 9.5$ in.) <br> Monarch ( $3.87 \times 7.5 \mathrm{in}$.) <br> C5 ( $162 \times 229 \mathrm{~mm}$ ) <br> DL ( $110 \times 220 \mathrm{~mm}$ ) <br> B5 ( $176 \times 250 \mathrm{~mm}$ ) |  | $\begin{aligned} & 1 \\ & 1 \\ & 1 \\ & 1 \\ & 1 \end{aligned}$ |
| Labels <br> Letter ( $8.5 \times 11 \mathrm{in}$.) A4 ( $210 \times 297 \mathrm{~mm}$ ) |  | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ |
| Transparency films <br> Letter ( $8.5 \times 11 \mathrm{in}$.) <br> A4 ( $210 \times 297 \mathrm{~mm}$ ) |  | $\begin{aligned} & 1 \\ & 1 \end{aligned}$ |
| Card stocks/ Bond | - | 1 |

* Depending on paper thickness, maximum capacity may be reduced.


## Paper Guidelines

When selecting or loading paper, envelopes, or other special media, keep these guidelines in mind:

- Attempting to print on damp, curled, wrinkled, or torn paper can cause paper jams and poor print quality.
- Use cut-sheet paper only. You cannot use multi-part paper.
- Use only high-quality, copier grade paper.
- Do not use paper that has been already printed on or that has been fed through a photocopier.
- Do not use paper with irregularities, such as tabs or staples.
- Do not attempt to load any tray during printing and never overfill the tray. This could cause a paper jam.
- Avoid paper with embossed lettering, perforations, or texture that is too smooth or too rough.
- Colored paper should be of the same high quality as white photocopy paper. The pigments must withstand the printer's fusing temperature of $400^{\circ} \mathrm{F}\left(205^{\circ} \mathrm{C}\right)$ for 0.1 second without deterioration. Do not use paper with a colored coating that was added after the paper was produced.
- Preprinted forms must be printed with nonflammable, heatresistant ink that will not melt, vaporize, or release hazardous emissions when subjected to the printer's approximately $400^{\circ} \mathrm{F}\left(205^{\circ} \mathrm{C}\right)$ fusing temperature for 0.1 second.
- Store paper in its ream wrapper until it is ready to use. Place cartons on pallets or shelves, not on the floor.
- Do not place heavy objects on top of the paper, whether it is packaged or unpackaged.
- Keep paper away from moisture, direct sunlight or other conditions that can cause it to wrinkle or curl.


## Selecing the Output Tray

The printer has two output locations: the rear output tray and the top output tray. To use the top output tray, be sure the rear output tray is closed. To use the rear output tray, open it.

- If paper coming out of the top output tray has problems, such as excessive curl, try printing to the rear output tray.
- To avoid paper jams, do not open or close the rear output tray while the printer is printing.


## Printing to the Top Output Tray (Face dow n)



- Top output tray

The top output tray collects paper face-down, in correct order. The top output tray should be used for most print jobs and is recommended for printing the following:

- over 250 sheets of paper, continuously
- transparencies


## Printing to the Rear Output Tray (Face up)



A Rear output tray

The printer always prints to the rear output tray if it is open. Paper comes out of the printer face-up, with the last page on top.

Printing from the Manual Tray to the rear output tray provides the straight paper path. Opening the rear output tray might improve output quality with the following:

- over 100 sheets of paper, continuously
- envelopes
- labels
- small custom-size paper
- postcards
- paper lighter than $16 \mathrm{lb}\left(60 \mathrm{~g} / \mathrm{m}^{2}\right)$ or heavier than $28 \mathrm{lb}\left(105 \mathrm{~g} / \mathrm{m}^{2}\right)$


## To open the rear output tray:

1 Open the rear door by pulling it down. The cover functions as the output tray.

2 Pull the extender to extend the output tray to its full-length position. This will allow the tray to hold longer paper.

3 If you do not want to stack the printed pages on the rear output tray, slide the extender back into place and close the tray. The pages will then stack on the top output tray.


## Loading Paper

Proper paper loading helps to prevent paper jams and ensure trouble-free printing. Do not remove paper tray while a job is printing. Doing so may cause a paper jam.

The paper level indicator on the front of the paper tray shows the amount of paper currently left in the tray. When the tray is empty, the indicator turns red.


## Using Auto Tray



Auto Tray holds 270 sheets of paper. See "Media Sizes and Capacities" on page 4.2 for acceptable paper size and capacities of the tray.

Load a stack of paper into the Auto Tray and print. For details on loading paper in the Auto Tray, see "Load Paper" on page 2.4.

## Using the Manual Tray

When you change the print settings, if you select Manual in the Paper Source option, you can manually load paper in the Manual Tray. Manually loading paper can be helpful when you want to check the print quality after each page is printed.

You must load paper sheet-by-sheet in the Manual Tray, send print data to print the first page, and press the Demo button to print each following page.

1 Pull the Manual Tray down towards you.


2 Load the paper in the Manual Tray with the print side up.

Adjust the guide to the width of paper.


3 When you print a document, you must select Manual for Paper Source from the software application, and then select the correct paper size and type. For details, see page 5.3.

4 Print the document.

5 The Manual light on the control panel blinks. Press the Demo button on the control panel.

The sheet of paper is loaded and printed.

6 After one page is printed, the Manual light on the control panel blinks again.

Feed the next sheet into the Manual Tray and press the Demo button.

Repeat this step for every page to be printed.


## Printing on Envelopes

## Guidelines

- Only use envelopes recommended for laser printers. Before you load envelopes in the Manual Tray, make sure that they are undamaged.
- Do not feed stamped envelopes.
- Never use envelopes with clasps, snaps, windows, coated lining, or self-stick adhesives. These envelopes may severely damage the printer.

1 Open the Manual Tray by pulling it down toward you.


2 Open the rear output tray and pull the extender.


3 Load the envelope with the flap side down.

The stamp area is on the left side and the end of the envelope with the stamp area enters the Manual Tray first.

4 Adjust the guide to the width of envelope.

6 When you print on envelopes, configure the paper source, type and size properly in the software application. For details, see page 5.3.

7 After printing, close the Manual Tray and the rear output tray.


Paper Source:
Manual
Paper Size:
B5 Env. (176 $\times 250 \mathrm{~mm})$
Paper Type:
Envelope
$-$

## Printing on Heavy Paper

## Guidelines

- Heavy paper is any paper heavier than $24 \mathrm{lb}\left(90 \mathrm{~g} / \mathrm{m}^{2}\right)$. The maximum paper weight available for your printer is $43 \mathrm{lb}\left(163 \mathrm{~g} / \mathrm{m}^{2}\right)$.
- Do not use extremely heavy paper stock (greater than 43 lb , or $163 \mathrm{~g} / \mathrm{m}^{2}$ bond). Misfeeds, mis-stacking, media jams, poor toner fusing, poor print quality, and excessive mechanical wear can result.

1 Open the Manual Tray and the rear output tray.


2 Load paper with print side up, and against the left edge of the tray.

Adjust the guide to the width of paper.

3 When you print on heavy paper, select Bond in the Paper Type section.then configure the paper source, and size in the software application. For details, see page 5.3.


Paper Source :
Manual $\square$

Paper Size:
Letter ( $81 / 2 \times 11 \mathrm{in}$ )
Paper Iype:

```
Bond
```


## Printing on Labels

## Guidelines

- Only use labels recommended for laser printers.
- Verify that the labels' adhesive material can tolerate fusing temperature of $200^{\circ} \mathrm{C}$ (392 ${ }^{\circ} \mathrm{F}$ ) for 0.1 second.
- Make sure that there is no exposed adhesive material between the labels. Exposed areas can cause labels to peel off during printing, which can cause paper jams. Exposed adhesive can also cause damage to printer components.
- Do not feed a sheet of labels through the printer more than once. The adhesive backing is designed for one pass through the printer.
- Do not use labels that are wrinkled, bubbled, separated from the backing sheet, or damaged in any way.

1 Open the Manual Tray and the rear output tray.


2 Load labels with print side up, and against the left edge of the tray.

Adjust the guide to the width of paper.

3 When you print on labels, configure the paper source, type and size in the software application. For details, see page 5.3.

Note: To prevent them from sticking together, remove label sheet from the output tray as they are printed out.


## Paper Source :

Manual

## Paper Size:

A5 ( $148 \times 210 \mathrm{~mm}$ ) $\quad \square$

## Paper Iype:

Labels

## Printing on Transparendes

## Guidelines

- Only use transparencies recommended for use in laser printers.
- Make sure that the transparencies are not wrinkled or curled, and that they do not have any torn edge.
- Hold the transparencies by the edges and avoid touching the print side. Oils from your fingers that are deposited on the transparency can cause print quality problems.
- Be careful not to scratch or leave fingerprints on the print side.
- To prevent transparencies from curling, use the standard output tray. (This is for transparencies only; for other media, use the rear output tray to reduce curling.)

1 Open the Manual Tray by pulling it down toward you.

2 Load transparencies with print side up, and the top with the adhesive strip entering the printer first.

Adjust the guide to the width of paper.


Paper Source :
Manual
3 When you print on transparencies, configure the paper source, type and size in the software application. For details, see page 5.3.

## Notes:

- To prevent transparencies from sticking together, remove them from the output tray as they are printed.
- Place transparencies on a flat surface after removing them from the printer.


## Printing on Preprinted Paper

Preprinted paper is paper that has some type of printing placed on it before it is sent through the printer. (paper that has a preprinted logo at the top of the page, for example)

## Guidelines

- Letterheads must be printed with heat-resistant ink that will not melt, vaporize, or release hazardous emissions when subjected to the printer's fusing temperature of $400^{\circ} \mathrm{F}$ ( $205^{\circ} \mathrm{C}$ ) for 0.1 second.
- Ink on letterheads must be non-flammable and should not adversely affect any printer rollers.
- Forms and letterheads should be sealed in a moisture-proof wrapping to prevent changes during storage.
- Before you load preprinted paper as forms and letterheads, verify that the ink on the paper is dry. During the fusing process, wet ink can come off preprinted paper.

1 Load letterheads into the tray you want to use as shown in the figures.

Adjust the guide to the width of paper.

2 When you print a document on the paper, configure the paper source, type and size in the software application. For details, see page 5.3.


## Printing on Card Stock or Custom-sized Media

Postcards, 3 by 5 in.(index) cards and other custom-sized media can be printed with the ML6040 printer. The minimum size is 98 by 148 mm ( 3.9 by 5.83 in .) and the maximum size is 216 by 356 mm ( 8.5 by 14 in .).

## Guidelines

- Always insert the short-edge into the Manual tray first. If you want to print in landscape mode, make this selection through your software. Inserting paper long-edge first may cause a paper jam.
- Do not print on media smaller than 98 mm ( 3.9 in .) wide or $148 \mathrm{~mm}(5.83 \mathrm{in}$.) long.
- Set margins at least 6.4 mm ( 0.25 in .) away from the edges of the media in the software application.

1 Open the Manual Tray. Open the rear output tray and pull the extender out to its full-length position.

2 Load print media with print side up, short edge first and against the left edge of the tray.

Adjust the guide to the width of paper.

3 Configure the paper source, type and size in the printer driver's properties (see page 5.3) and print.

Note: If the size of your print media is not listed in the Paper Size box in the Paper tab of the printer driver properties, select Custom Paper Size and set the paper size manually.


| Paper Source: |
| :--- |
| Manual <br> Paper Size : <br> Custom Paper Size <br> Paper Iype : <br> Card Stock |

# Printing Tasks 

This chapter explains your printing options and covers common printing tasks.

Topics included in this chapter are:

- Printing a Document
- Using Toner Save Mode
- Printing on Both Sides of the Paper (Manual Duplexing)
- Printing Multiple Pages on One Sheet of Paper (N-Up Printing)
- Scaling Your Document
- Fitting Your Document To a Selected Paper Size
- Printing Booklets
- Printing Posters
- Setting Graphic Properties
- Printing Watermarks
- Using Page Overlay
- Printing on a Network Environment
- Reprinting the Last Page

The following procedure describes the general steps required for printing from various Windows applications. The exact steps for printing a document may vary depending on the application program you are using. Refer to your software application's documentation for the exact printing procedure.

1 Open the document you want to print.

2 Select Print from the File menu. The Print dialog box for your application will be displayed (the Print dialog box for your application may look slightly different).

The basic print settings you will need are usually selected within this Print dialog box. These settings include the number of copies, paper size, and page orientation.

> If you see a Properties button, click it.If you see Setup,
> Printer, or Options, click that button instead; then click
> Properties in the next screen.


3 To take full advantage of the printer features provided by your ML-6040 printer, click Properties in the application's Print dialog box and go to step 4.

If you see Setup, Printer, or Options, click that button instead. Then click Properties in the next screen.

4 Now you see the Samsung ML-6040 Series printer's Properties dialog box. The Properties dialog box allows you to access all the information you will need when using your printer.

If necessary, click the Paper tab to display the settings shown below. The Paper tab contains the options for setting the basic paper handling.


## Paper £ouce

Anto Select
Gito semect
Manual

## Paper Iype:

Plain Paper

## Flumprot

Bond
Transparency
Cand Stock
Lebels
The default paper type is Use Printer Default. If you load a different type of print media, select the corresponding paper type. For further information on print media, refer to chapter 4 'Print Media'.

Also, select the paper size you have loaded in your printer.

The Paper Orientation option allows you to select the direction in which information is printed on a page.
Portrait prints across the width of the page, letter style. Landscape prints across the length of the page, spreadsheet style.


5 Click other tabs on the top of the Properties dialog box to access other features, if needed.

6 When you complete the print settings, click OK until the Print dialog box is displayed.

7 Click OK to start printing.

## Notes:

- M ost W indows applications will override settings you specify in the printer driver. Change all print settings available in the software application first, and change any remaining settings suing the printer driver.
- The settings you change remain in effect only while you are using the current program. To make your changes permanent, make them in the Printers folder. Follow this procedure:

1. Click the W indows Start button.
2. Select Settings, then Printers to open the Printers window.

3. Select the Samsung M L-6040 Series printer icon.
4. Click the right mouse button and select Properties to open the properties window.

## Canceling a Print Job

There are two ways to stop a print job.

## To stop a print job from the ML-6040 printer

Press the Cancel/ Reprint button on the control panel.


The printer will finish printing the page that is moving through the printer and delete the rest of the print job. Pressing Cancel/ Reprint cancels only the current job in the printer. If more than one print job is in printer memory, Cancel/ Reprint must be pressed once for each job.

## To stop a print job from the Printers folder

## 1. From the Start menu, select Settings.

2. Select Printers to open the Printers window, then doubleclick the Samsung ML-6040 Series.
3. From the Document menu, select Cancel Printing (Windows 9x) or Cancel (Windows NT 4.0).

## Printing Help



The Samsung ML-6040 printer has a help screen that can be activated by the Help button in the printer Properties dialog box. These help screens give detailed information about the printer features provided by the ML-6040 printer driver.

If you want to restore the default printer properties settings when you change the print settings, click Defaults in the Samsung ML-6040 Series Properties dialog box.

## Using Toner Save Mode

Toner Save mode allows the printer to use less toner on each page. Selecting this option will extend the life of your toner cartridge and reduce your cost per page, but will reduce print quality.

There are two ways to enable the Toner Save mode.

## To enable this feature from the ML-6040 series printer

Press the Toner Save button on the control panel. The printer must be in the ready mode (Data light is on).


- If the button backlight is on, toner save mode activates and the printer uses less toner to print a page.
- If the button backlight is off, toner save mode is disabled and the printer prints in the normal mode.

Note: To enable or disable the Toner Save mode from the control panel, the Toner Save M ode option in the printer driver must be set to Print Setting. See below.

## To enable this feature from the software application

1. When you change the print settings from your software application, access the printer properties. See page 5.2 to access the printer properties.
2. Click the Graphic tab, and select the Toner Save Mode option. You can select from:

- Printer Setting: If you select this option, this feature is determined by the setting you've made on the control panel of the printer.
- Standard: If you don't need to save toner to print a document, select this option.
- Save: Select this option to allow the printer to use less toner on each page.

3. Click OK.

## Printing on Both Sides of the Paper (Manual Duplexing)



To print on both sides of the paper (manual duplexing), you must run the paper through the printer twice. You can print using the top output tray (face down tray) or the rear output tray (face up tray). Samsung recommends using the top output tray for light-weight paper. Use the rear output tray for any heavy media or media that tends to curl when printed, such as envelopes and card stock.

1 When you change the print settings from your software application, access the printer properties. See page 5.2 to access the printer properties.

From the Paper tab, select the paper orientation, source, size and type.

2 Click the Output tab, then choose Flip on Long Edge or Flip on Short Edge from the Type drop-down list in the Duplex section.


Choosing Flip on Long Edge lets you place the binding orientation along the long edge of the paper, as in a magazine.

Choosing Flip on Short Edge lets you place the binding orientation along the short edge of the paper, as in a calendar.


3 Select Face Down Tray (top output tray) or Face Up Tray (rear output tray) in which the printed media is to be stacked. According to this option, the printer will determine the print page order when the second sides are printed.

If you select Face Up Tray, open the face up tray.

4 If you want to print the instruction page which tells you how to load the paper, click Print Instruction sheet. If the box is checked, the printer prints the instruction sheet before the duplexing job is printed. If the box is empty, this feature is disabled.


Remove the printed pages, and reload them into the Manual Tray one sheet at a time with the printed side face down.

5 Start printing. The printer automatically prints only the odd-numbered pages.

6 Gather up the printed pages, and reload them into the Manual Tray one sheet at a time in the order that they are printed.

Note: If you have selected the Face Up Tray option in Step 3 , the last page is placed on the top of the stack. Do not rearrange the pages before reloading them to print the second side.

The following illustrations show you how to put the printed pages back into the printer.


Flip on Long Edge in the Landscape orientation


Flip on Long Edge in the Portrait orientation


Flip on Short Edge in the Landscape orientation


Flip on Short Edge in the Portrait orientation

7 You are prompted to reinsert the paper into the Manual Tray. Click OK on the screen to start printing the second side. The printer automatically prints only the evennumbered pages.

Note: You must press the Demo button to start printing each time you load the printed page into the $M$ anual Tray.

## Printing Multiple Pages on One Sheet of Paper (n.v. Pintinge)



A 4 pages per sheet

You can select the number of pages that you want to print on a single sheet of paper. If you choose to print more than one page per sheet, the pages will appear decreased in size and arranged on the sheet. You can specify up to 16 pages.

1 When you change the print settings from your software application, access the printer properties. See page 5.2 to access the printer properties.

From the Paper tab, select the paper orientation, source, size and type.

2 Click the Output tab, and choose Multiple Pages per Side in the Type drop-down list. Then select the number of pages you want to print per sheet ( $1,2,4,9$ or 16 ) in the Pages per Sheet drop-down list.

3 Click Print Page Borders if you want to print a border around each page on the sheet. Print Page Borders is enabled only if Pages per Sheet is 2, 4, 9, or 16.


4 Click OK, then start printing.

## Scaling Your Document



This printer feature allows you to scale your print job on a page.

1 When you change the print settings from your software application, access the printer properties. See page 5.2 to access the printer properties.

2 Click the Output tab, and select Scale Printing in the Type drop-down list.

3 Enter the desired scaling rate in the Scales input field.
You can also click the $\boldsymbol{\Delta}$ or $\boldsymbol{\nabla}$ buttons.


4 Click OK, then start printing.

## Fitting Your Document To a Selected Paper Size



This printer feature allows you to scale your print job to any selected paper size regardless of the digital document size. This can be useful when you want to check fine details on a small document.

1 When you change the print settings from your software application, access the printer properties. See page 5.2 to access the printer properties.

2 Click the Output tab, and select Fit to Page in the Type drop-down list.

3 You'll see the Application paper size and then you will be prompted to select the Fit to paper Size. Select the correct size from the drop-down list.


4 Click OK, then start printing.

## Printing Booklets


$\triangle$ Portrait orientation

$\Delta$
Landscape orientation

The Booklet printing feature allows you to print your document as a 2 -sided (duplex) job and to arrange the pages so that the paper can be folded in half after printing to produce a booklet.

1 When you change the print settings from your software application, access the printer properties. See page 5.2 to access the printer properties.

From the Paper tab, select the paper orientation, source, size and type.

Note: For booklet printing, only four paper sizes are supported: Letter, A4, Legal, and Executive.

2 Click the Output tab, then choose Booklet Printing from the Type drop-down list.

Then select the paper size you are using from the Booklet drop-down list.



C Face Up Tray
C Face Down Tray
Print instruction sheet

3 Select Face Down Tray (top output tray) or Face Up Tray (rear output tray) in which the printed media is stacked. According to this option, the printer will determine the print page order when the second sides are printed.

If you select Face Up Tray, open the face up tray.

4 If you want the instruction page which tells you how to load the paper, click Print Instruction sheet. If the box is checked, the printer prints the instruction page before the duplexing job is printed. If the box is empty, this feature is disabled.

5 Print the document.

6 The printer prints side one as shown below for an 8-page document.


7 Gather up the printed pages, and reload them into the Manual Tray one sheet at a time. Go to the next page for details on reloading the printed pages.


Remove the printed pages, and reload them into the Manual Tray one sheet at a time with printed side face down.

The following illustrations show how to put the paper back into the printer.

© Face Down Tray output


In Landscape orientation, insert the pages with bottom edge toward the printer.

© Face Up Tray output
A Face Down Tray output

8 You are prompted to reinsert the paper into the Manual Tray. Click OK on the screen. The printer will finish printing.

Note: You must press the Demo button to start printing each time you load the printed page into the $M$ anual Tray.

9 Fold and staple the pages.


## Printing Posters


$\triangle$
Poster printing with $2 \times 2$ style

This feature allows you to print a single-page document onto $4,9,16,25$, or 36 sheets of paper, for the purpose of pasting the sheets together to form one poster-size document.

1 When you change the print settings from your software application, access the printer properties. See page 5.2 for more information on accessing printer properties.

From the Paper tab, select the paper orientation, source, size and type.

2 Click the Output tab, and select Poster Printing in the Type drop-down list.



3 To determine the scaling factor, select the Style; $\mathbf{2 x 2}, \mathbf{3 x 3}$, $4 \times 4,5 \times 5$ or $\mathbf{6 x 6}$.

For example, if you select $\mathbf{2 x 2}$, the output will be automatically stretched to cover 4 physical pages.


4 You may specify an overlap in millimeter or inch to make it easier to reconstruct the resulting poster.


5 Click OK, then start printing.

## Setting Graphic Properties

Use the following options to adjust the print quality for your specific printing needs when you access the printer properties. See page 5.2 for more information on accessing printer properties.

If necessary, click the Graphic tab to display the settings shown below.


Resolution

## Resolution

You can select the printing resolution by choosing either $\mathbf{3 0 0} \mathbf{~ d p i}$ or $\mathbf{6 0 0} \mathbf{~ d p i}$. The higher the setting, the sharper the clarity of printed characters and graphics. Higher settings may increase the time it takes to print a document.

SRT Mode

## SRT Mode

C Normal
$\bigcirc$ Iext Enhance
Clmage Enhance

Some printed characters or images appear to have jagged or uneven edges. Set this Samsung Resolution enhancement Technology (SRT) option to improve the print quality of your text and image and make the characters and images appear smoother.

- Printer Default - Choose this setting to use SRT that your printer provides.
- Normal - SRT mode is disabled. Choose this setting if graphics, particularly scanned images, are not printing clearly.
- Text Enhance - This setting refines the print quality of characters by smoothing out jagged edges that can occur on the angles and curves of each character.
- Image Enhance - This setting refines the print quality of photo images using SRT.

Note: Text Enhance and Image Enhance are disabled when the 300 dpi setting is selected.

## Graphic Mode

C Vector
$\bigcirc$ Raster

Configure the printer to process graphics as raster or vector images. Setting this option tells Windows how to send graphic images to the printer. All graphics can be printed as raster images, however some geometric shapes or patterns print faster if they are printed as vector graphics.

- Vector - If you select the Vector setting, Windows will send graphics to the printer as a mixture of vector and bit map images.
- Raster - When you select the Raster setting, Windows will send all graphics to the printer as bit map images.

Note: Not all graphic images can print using the Vector setting. If you are using the Vector setting, and your graphic images do not print as they appear on your computer screen, select the
Raster setting and reprint your graphic. (W indow 9x only)

## Setting Graphic Properties

Darkness

Darkness
C. Normal
(a) $C$ Light

CDark

Use this option to lighten or darken the image appearance in your print jobs.

- Normal - This setting is for normal documents.
- Light - This setting is for bolder line widths or darker grayscale images.
- Dark - This setting is for finer line width, higher definition in graphics, and lighter gray-scale images.


## Reprint

Repint $0 n$

Reprint When Jam


Power Save Mode


With this option On, the printer keeps the image for a printed page until the printer signals that the page has successfully exited the printer. If a paper jam occurs, the printer will automatically reprint all jammed pages after the jam is cleared.

To conserve power when a printer is idle, you can set the printer to enter a reduced power state after completing a print job, according to a time specified by you in the Power save Mode box.

Select the desired length of time from the drop-down list.

If your printer is constantly used, select OFF to keep the printer ready to print with the minimum warm-up time. This uses more energy to keep the printer warm and ready to print.

## Printing Watermarks



The Watermark option allows you to print text over an existing document. For example, you may want to have large gray letters reading "Draft" or "Confidential" printed diagonally across the first page or all pages of a document.

There are several predefined watermarks that come with the ML-6040 series printer, and they can be modified or you can add new ones to the list.

## To use an existing w atermark

1 When you change the print settings from your software application, access the printer properties. See page 5.2 for more information on accessing printer properties.

2 Click the Watermark tab, and select the desired watermark in the Message drop-down list. You will see the selected watermark in the preview window.


3 Click OK, then start printing.

To create or edit a watermark

1 When you change the print settings from your software application, access the printer properties. See page 5.2 for more information on accessing the printer properties.

2 Click the Watermark tab, and enter the desired text message in the Text field. This will be displayed in the preview window. The preview window is provided so that you can see how the watermark will appear on the printed page.

3 Select the desired watermark options. You can select the font type and size, color and angle. There are three checkboxes at the bottom of the dialog box:

- Transparent Text - Allows the document to show through the watermark.
- As Outline Only - Prints the text outline of the watermark. This setting globally effects all watermarks in the list.
- On First Page Only - Prints the watermark only on the first page.



## Bansumy ML Fiotil Series Piopenties <br> 

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Corinderibe
add
Usdye
Deples

4 If you have created a new or edited an existing watermark, the Add and Update button is enabled.

To add a new watermark to the list, click Add.

5 If you want to edit, select the desired watermark from the list, edit, then click Update.

6 When you complete the edit, click OK, then start printing.

To stop printing the watermark, select None in the Message drop-down list.

1 When you change the print settings from your software
application, access the printer properties. See page 5.2 for more information on accessing the printer properties.

2 From the Watermark tab, select the watermark you want to delete in the Messages drop-down list.

## 3 Click Delete.

## 4 Click OK.

## To delete a w atermark

## Using Page Overlay

What is an Overlay?


An overlay is text and/or images stored in the computer HDD as a special file format that can be printed on any document you choose. Overlays are often used to take the place of preprinted forms and letterhead paper. Rather than using preprinted letterhead, for example, you can create an overlay containing the exact same information that is currently on your letterhead. Then when you want to print a letter with your company's letterhead, you do not need to load preprinted letterhead paper in the printer. You need only to tell the printer to print the letterhead overlay on your document.

Creating a New Page Overlay


To use a page overlay, you must create a new page overlay containing your logo or image.

1 Create or open a document containing a text or image you want to use for page overlay. Position the items exactly as you wish them to appear when printed as an overlay. If needed, save the file for later use.

2 Select Print from the File menu. Then click Properties in the application's Print dialog box to access the printer properties. For details, see page 5.2.

3 Click the Overlays tab, and click Create Overlay.


4 In the Create Overlay dialog box, type a name of up to eight characters in the File name box. Select the destination path if necessary. (The default is C: (FFORMOVER).


5 Click OK. You will see the name in the Overlay List box.

6 Click OK or Yes until you complete the creation.
The file is not printed out. Instead it will be stored on your computer HDD disk.

Note: The overlay document size must be the same as documents you will print with the overlay. Do not creat overlay with the watermark.

Using Page Overlay
After an overlay has been created, it is ready to be printed with your document. To print an overlay with a document:

1 Create or open the document you want to print.

2 When you change the print settings from your software application, access the printer properties. See page 5.2 to access the printer properties.

3 Click the Overlays tab, and select the desired overlay from the Overlay List box.

4 If the desired overlay file does not appear in the Overlay List box, click Load Overlay, and select the overlay file.


If you have stored the overlay file you want to use into an external source, you can also load the file when you access this Load Overlay window.

After you select the file, click OK. The file is now shown in the Overlay List box and is available for printing. Select the overlay from the Overlay List box.


5 If necessary, click Query Page Overlay. If this box is checked, a message box will appear each time you submit a document for printing, asking you to confirm your wish to print an overlay on your document.

Answering Yes to the message box means that the selected overlay will be printed with your document.
Answering No to the message box cancels overlay printing.
If this box is empty, and an overlay has been selected, the overlay will be automatically printed with your document.

6 Click OK or Yes until the printing starts.
The selected overlay will be downloaded with your print job and printed on your document.

Note: The overlay document resolution must be save as document you w ill print with the overlay.

You can delete page overlays that are no longer used.
1 In the printer properties dialog box, click the Overlays tab.

2 Select the overlay you want to delete from the Overlay List box.

## 3 Click Delete Overlay.

4 Click OK until you exit the Print dialog box.

# Printing on a Network Environment 

If you work in a network environment, you can connect your printer directly to a selected computer (called the "host computer") on the network. The printer can then be shared by other users on the network through a Windows $9 x$, or NT 4.0 network printer connection.

Note: You need to install the Samsung M L-6040 Printer driver on each computer that will print documents to the printer.

## Setting Up Host Computer



1 Start Windows.

2 From the Start menu, select Control Panel, and double-click on the Network icon.

3 Check the File and Print Sharing box, then click OK. Close the window.

4 Click Start and select Printers from Settings, then double-click your printer name.

5 Select Properties in the Printers menu.

6 Click the Sharing tab, then check the Shared As box. Fill in the Shared Name field, then click OK.

## Setting Up Client PC



1 Right-click Start, and select Explorer.

2 Open your network folder in the left column.

3 Right-click the shared name, and select Capture Printer Port.

4 Select the port you want, check the Reconnect at log on box, then click OK.

5 From the Start menu, select Settings, then Printers.

6 Double-click your printer icon.

7 From the Printers menu, select Properties.

8 Press the Details tab, select the printer port, then click OK.

## Reprinting the Last Page

The Samsung ML-6040 printer's memory always keep the last page of the last job. If you canceled a print job due to a paper jam or other problems and you want to know which page was printed last, reprint the last page.

Press Cancel/ Reprint briefly in the ready mode.


Note: If you want to prevent somebody from reprinting your document, you can turn the Reprinting feature off in the printer's properties dialog box. W hen you turn the feature off in the printer's properties, the Cancel/Reprint button on the control panel does not perform the reprinting operation.

## To disable this feature:

1. From the Start menu, select Settings and then

## Printers.

2. Click the right mouse button on the Samsung ML6040 Series printer ic on and select Properties to open the properties window.
3. From the Graphic tab, Select Off from the Reprint drop-down list.

W ith this option Off, you cannot reprint the last page from the control panel.
W hen you want to reprint the last page on the control panel, you must select On from the list.
4. Click OK.

# Maintaining Your Printer 

This chapter provides suggestions for high-quality and economical printing and information for maintaining the toner cartridge and the printer.

Topics included in this chapter are:

- Maintaining Toner Cartridge
- Cleaning the Printer


## Maintaining Toner Cartridge

## Toner cartridge storage

To get the most from the toner cartridge, keep the following guidelines in your mind.

- Do not remove the toner cartridge from its package until you are ready to use it. The shelf life of a cartridge in an unopened package is approximately 2 years. The shelf life of a cartridge in an opened package is approximately 6 months.
- Do not refill toner cartridges. The printer warranty does not cover damage caused by using a refilled cartridge.
- Store toner cartridges in the same environment as the printer.
- Do not remove a toner cartridge from the printer except to replace it, clean it or clear a paper jam. Replace the cartridge immediately.
- To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes.


## Toner cartridge life expectancy

The life of the toner cartridge depends on the amount of toner that print jobs require. When printing text at $5 \%$ coverage, a new toner cartridge lasts an average of 6,000 pages. (But, the toner cartridge supplied with the printer lasts an average of 3,000 pages.)

Recycling toner cartridge

After you install a new toner cartridge (see page 2.2), follow the instructions included in the toner cartridge box to recycle the old cartridge.

Saving toner To save toner, press the Toner Save button on the printer control panel. The button will be lit. You can also enable the Toner Save Mode in your printer properties. Refer to "Using Toner Save Mode" on page 5.6. Selecting this option will expand the life of the toner cartridge and reduce your cost per page, but will reduce print quality.

## Redistributing Toner

When toner is low, faded or light areas may appear on a printed page. You may be able to temporarily improve print quality by redistributing the toner. The following procedures may allow you to finish the current print job before replacing the toner cartridge.

1 Open the top cover.


2 Remove the toner cartridge from the printer.

## CAUTIONS:

- Avoid reaching too far into the printer. The fusing area may be hot.
- To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes.


3 Gently shake the toner cartridge from side to side 5 or 6 times to redistribute the toner.

Note: If the toner gets on your clothing, wipe it off with a dry cloth and wash clothing in cold water. Hot w ater sets toner into fabric.


4 Reinsert the toner cartridge into the printer. Be sure that the toner cartridge is firmly in its place.

5 Firmly close the cover.

## If the print remains light

Remove the old cartridge and install a new toner cartridge. See "Install the


6 Toner Cartridge" on page 2.2.

## Cleaning the Printer

To maintain print quality, follow the cleaning procedures below every time the toner cartridge is replaced or whenever print quality problems occur. As much as possible, keep the printer free from dust and debris.

## Notes:

- Do not use ammonia-based cleaners or volatile solvents such as thinner, on or around the printer. These can damage the printer.
- While cleaning the inside of the printer, be careful not to touch the transfer roller (located underneath the toner cartridge ). The oil from your hands on the roller can cause print quality problems.


## Cleaning the Outside

Wipe the outside surface of the printer with a soft, clean, lintfree cloth. You can dampen the cloth slightly with water, but be careful not to be let any water drip onto the printer or inside of it.

## Cleaning the Inside

Cleaning inside the printer

Note: To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes. Cover it with a piece of paper, if necessary. Also, do not touch the black transfer roller inside the printer. By doing so, you can damage the printer.

During the printing process, paper, toner, and dust particles can accumulate inside the printer. Over time, this buildup can cause print quality problems such as toner specks or smearing. Cleaning inside the printer will eliminate or reduce these problems.

1 Turn the printer off and unplug the power cord, then wait for the printer to cool.

2 Open the top cover and remove the toner cartridge.

3 With a dry, lint-free cloth, wipe away any dust and spilled toner from the toner cartridge area and the toner cartridge cavity.


4 Locate the long strip of glass (LSU) inside the top of the cartridge compartment, and gently swab the glass to see if dirt turns the white cotton black.


5 Reinsert the toner cartridge and close the top cover. Then, turn the printer on.

Printing a cleaning sheet


Note: The cartridge cleaning process takes some time. To stop the printing, turn the pow er off.

Printing a cleaning sheet cleans the drum inside the toner cartridge. Use this process if you are experiencing blurred, faded or smeared printouts. This process will produce a page with toner debris, which should be discarded.

1 Make sure the printer is turned on and in the ready state and that there is paper loaded in the paper tray.

2 Press and hold Demo on the control panel for about 10 seconds until all control panel lights remain steadily lit, then release.


3 Your printer automatically picks up a sheet of paper from the paper tray and prints out a cleaning sheet with the dust or toner particles on it.

## Problem Solving

This chapter gives helpful information for what to do if you encounter a printer error. It provides information on the following topics:

- Troubleshooting Checklist
- Solving General Printing Problems
- Clearing Paper Jams
- Solving Print Quality Problems
- Troubleshooting Error Messages
- Common Windows Problems


## Troubleshooting Chedklist

If the printer is not working properly, complete the following checklist in order. If the printer does not pass a step, follow the corresponding troubleshooting suggestions.

| Check | Solution |
| :--- | :--- |
| Make sure that the Data light on <br> the control panel is on. | - If no lights are on, check the power cord <br> connection. Check the power switch. Check the <br> power source by plugging into another outlet. <br> - If other lights are on, go to "Troubleshooting Error <br> Messages" on page 7.19. |
| Press the Demo button to print <br> a demo page to verify that the <br> printer is feeding paper correctly. <br> See page 2.8. | - If a demo page does not print, check the paper <br> supply in the paper tray. <br> -If the paper jams in the printer, go to " Clearing <br> Paper Jams" on page 7.6. |
| - If the Error indicator light is illuminated on the |  |
| control panel, go to "Troubleshooting Error |  |
| Messages" on page 7.19. |  |

## Solving General Printing Problems

If you have any problems with the operation of your ML-6040 printer, refer to the table for suggested solutions.

| Problem | Possible Cause |
| :--- | :--- | :--- |
| The printer does not |  |
| print. |  |\(\left.\quad \begin{array}{l}The printer is not <br>

receiving power.\end{array} \quad $$
\begin{array}{l}\text { If no lights are on, check the power } \\
\text { cord connections. Check the power } \\
\text { switch and the power source. }\end{array}
$$\right\}\)

$\left.$| Problem | Possible Cause | Solution |
| :--- | :--- | :--- |
| The printer does not <br> print. (continued) | The printer may be <br> configured incorrectly. | Check the printer properties to make <br> sure that all print settings are correct. |
|  | The printer driver may <br> be incorrectly installed. | Uninstall the printer driver, then <br> reinstall the printer driver. Try printing <br> a demo page. |
|  | The printer is <br> malfunctioning. | Check the lights on the control panel to <br> determine if the printer is indicating a <br> system error. |
| Printer selects media <br> from the wrong <br> paper source. | The paper source <br> selection in the printer <br> properties may be <br> incorrect. | For many software applications the <br> paper source selection is found under <br> the Paper tab within the printer <br> properties. Select the correct paper <br> source. |
| Paper does not feed <br> into the printer. | Paper has not been <br> loaded correctly. | Remove paper from the paper tray and <br> reload it correctly. |
|  | There is too much paper <br> in the paper tray. | Remove excess paper from the tray. |
| The paper is too thick. | Use only paper that meets the <br> specifications required by the printer. |  |
| Print job is extremely |  |  |
| slow. | The job may be very <br> complex. <br> The maximum speed of <br> 12 pages per minute <br> cannot be exceeded even <br> when more memory is <br> added. | Reduce the complexity of the page or <br> try adjusting the print quality settings. <br> If this problem occurs frequently, add <br> memory to the printer. |
| If using Windows 95, the |  |  |
| Spooling Setting may be |  |  |
| set incorrectly. |  |  | | From the Start menu, choose Settings |
| :--- |
| and Printers. Right-click the Samsung |
| ML-6040 Series printer icon, choose |
| Properties, click the Details tab, and |
| then choose the Spool Settings |
| button. Select the desired spool setting |
| from the available choices. | \right\rvert\,

## Solving General Printing Problems

| Problem | Possible Cause | Solution |
| :---: | :---: | :---: |
| Half of the page is blank. | The page layout is too complex. | Simplify the page layout and remove any unnecessary graphics from the document, if possible. |
|  | The page orientation setting may be incorrect. | Change the page orientation in your application. |
|  | The paper size and the paper size settings do not match. | Make sure that the paper size in the print settings matches the paper in the paper tray. |
| The paper keeps jamming. | There is too much paper in the paper tray. | Remove excess paper from the tray. If printing special media, use the Manual Tray. |
|  | An incorrect type of paper is being used. | Use only paper that meets the specifications required by the printer. |
|  | An incorrect output method is being used. | Media such as thick paper should not be printed using the standard facedown stacker. Use the rear face-up output tray instead. |
|  | There may be debris inside the machine. | Open the top cover and remove the debris. |
| The printer prints, but the text is wrong, garbled, or incomplete. | The printer cable is loose or defective. | Disconnect the printer cable and reconnect it. Try a print job that you know works. If possible, attach the cable and printer to another computer and try a print job that you know works. Finally, try a new printer cable. |
|  | The wrong printer driver was selected. | Check the application's printer selection menu to make sure that your printer is selected. |

## Solving General Printing Problems

| Problem | Possible Cause | Solution |
| :--- | :--- | :--- |
| The printer prints, but <br> the text is wrong, <br> garbled, or incomplete. <br> (continued) | The software application <br> is malfunctioning. | Try printing a job from another <br> application. |
|  | The operating system is <br> malfunctioning. | If printing from Windows (any <br> version), exit to a Dos prompt and <br> verify functionality with the following <br> command: At a C: 1 prompt, type Dir <br> LPT1, then press Enter. (This <br> assumes you are connected to LPT1.) <br> Exit Windows and reboot the <br> computer. Turn the printer off and then <br> back on again. |
| Pages print, but are <br> totally blank. | The toner cartridge is <br> defective or out of toner. | Replace the toner cartridge. |
|  | The sealing tape may <br> still be in the toner <br> cartridge. | Remove the toner cartridge and pull <br> out the sealing tape. Reinstall the <br> toner cartridge, and check by printing <br> a demo page. |
|  | The file may have blank <br> pages. | Check the file to make sure that it <br> does not contain blank pages. |
|  | Some parts, such as the <br> controller or the board, <br> may be defective. | Contact a service representative. |

## Clearing Paper Jams

Occasionally, paper can become jammed during a print job. Some of the causes include:

- The paper tray is loaded improperly or overfilled.
- The paper tray has been pulled out during a print job.
- The top cover has been opened during a print job.
- Paper that does not meet paper specifications has been used. See "Paper Specifications" on page A.2.
- Paper that is outside of the supported size range has been used. See "Paper Specifications" on page A. 2 .

If a paper jam occurs, the Paper and the Error lights remain lit on the control panel. Find and remove the jammed paper. If the location of the paper jam is not obvious, look inside the printer.

## Output Area

Note: Paper jams in this area may result in loose toner on the page. If you get any toner on your clothes, wash them in cold water because hot water will set the toner into the fabric.

1 If the paper is almost completely visible from the top output tray, pull the remaining paper carefully out of the printer.


2 If the jammed paper is not visible or there is resistance when you pull the paper, open the rear output tray.

3 Remove the stopper as shown, then push the tray down so that it is open at 90 degrees angle.

4 If there is resistance when you pull the paper, squeeze the handle on the right end of the exit roller 11 , then pull the roller in the direction of arrow (2).


5 Remove the jammed paper.


## Clearing Paper Jams

Replace the exit roller.
Make sure that you click the right end of the roller back in place. If you fail to do so, the printer system will recognize that the printer cover is open or that a system fuser error has occurred, and the Error light on the control panel will turn on.


7 Replace the stopper as shown, and close the rear output tray.


8 To resume printing, open the top cover, and then close it close it again.


Note: If the Paper and the Error lights do not turn off, there is still jammed paper inside the printer. Check the input area and the inside of the printer.

## Input Area

Note: If paper has entered the toner cartridge area, follow the instructions on page 7.10. It is easier to remove such jams from the inside of the printer than the paper input area.

1 Slide out Auto tray to expose the jammed paper.


2 Remove any misfed paper by pulling it out by the visible edge from the tray. Make sure that all of the paper is properly aligned in the tray.

Note: If the paper is jammed in the paper feed area and cannot be accessed from inside the printer, remove Tray 1 from the printer and carefully pull the jammed paper free
 from the printer.

3 Slide the tray back into the printer.


## Clearing Paper Jams

4 To resume printing, open the top cover, and then close it again.

Note: If the Paper and the Error lights do not turn off, there is still jammed paper inside the printer. Check the inside of the printer.


## Inside the Printer

Note: Paper jams in this area may result in loose toner on the page. If you get any toner on your clothes, wash them in cold water because hot water will set the toner into the fabric.

1 Open the top cover and remove the toner cartridge.

CAUTION: To prevent damage to the toner cartridge, do not expose it to light for more than a few minutes. Place a piece of paper over the top of the toner cartridge to shield it while it is out of the printer.


2 Carefully lift up the guide feed.


3 Gently pull the paper toward you to remove it from the printer.


4 Flip down the guide feed, and reinstall the toner cartridge.

Note: If the toner cartridge is difficult to reinstall, make sure the guide feed has been flipped back down into position.


5 Close the top cover. Printing can be resumed.


## Tips for Avoiding Paper Jams

By selecting correct paper types and loading them properly, you should be able to avoid most paper jams. If paper jams occur, follow the steps outlined in "Clearing Paper Jams" on page 7.6. If jams occur frequently, make sure you are following these tips to avoid jams.

- Follow the procedures in "Load Paper" on page 2.4 to load the paper properly. Make sure the adjustable guides are positioned correctly.
- Do not overload the paper tray. Make sure the paper is under the paper capacity mark on the inside of the paper tray.
- Do not pull out the paper tray while print jobs are in process.
- Flex, fan and straighten the paper before loading it.
- Do not load stacks of labels or transparencies in the Auto Tray. Labels or transparencies must be fed using the Manual Tray.
- Do not load wrinkled, creased, damp or highly curled paper.
- Do not mix paper types in the paper tray.
- Use only recommended print media. See "Paper Specifications" on page A. 2.
- Make sure that the recommended print side is facing down when loading the paper into the Auto Tray and facing up when loading into the Manual Tray.
- Keep print media stored in an acceptable environment.


## Solving Print Quality Problems

## Print Quality Checklist

General print quality problems can be solved by following the checklist below.

- Check the printer properties to make sure that you are using the best available print quality option (see page 5.18).
- Redistribute the toner in the toner cartridge (see page 6.2).
- Clean the inside of the printer (see page 6.4).
- Adjust the print resolution from the printer properties (see page 5.18).
- Check to make sure that Toner Save Mode is off (see page 5.6).
- Troubleshoot general printing problems (see page 7.2).
- Install a new toner cartridge, then check print quality again (see page 2.2).


## Solving Print Quality Problems

| Problem | Solution |
| :---: | :---: |
| Light or faded print | If a vertical white streak or faded area appears on the page: |
| AaBbCc AaBb Cc AaBbCc AaBbCc AaBbCc | - The toner supply is low. You may be able to temporarily extend the toner cartridge life. See "Redistributing the Toner" on page 6.2. If this does not improve the print quality, install a new toner cartridge. <br> - The paper may not meet paper specifications (for example, the paper is too moist or too rough). See "Paper Specifications" on page A. 2 . |
|  | - If the whole page is light, the print resolution setting is too light or Toner Save Mode may be on. Adjust the print resolution and darkness setting within the printer properties. See page 5.18 and 5.20 respectively. <br> - A combination of faded and smeared defects may indicate that the toner cartridge needs cleaning. See "Cleaning the Printer" on page 6.4. <br> - The surface of the LSU part inside the printer may be dirty. Clean the LSU (see page 6.5). |

Problem
Toner specks
AäBb்c
Aa
A ABCDC
AaBbCc
Aábec

## Dropouts

AaBbCc
AaBbCc AaBbCc AaBbCc АаВbCc

## Solution

- The paper may not meet paper specifications (for example, the paper is too moist or too rough). See "Paper Specifications" on page A.2.
- The transfer roller may be dirty. See "Cleaning the Inside" on page 6.4.
- The paper path may need cleaning. See "Cleaning the Inside".

If faded areas, generally rounded, occur randomly on the page:

- A single sheet of paper may be defective. Try reprinting the job.
- The moisture content of the paper is uneven or the paper has moist spots on its surface. Try a different kind or brand of paper. See "Paper Specifications" on page A.2.
- The paper lot is bad. The manufacturing processes can cause some areas to reject toner. Try a different kind or brand of paper.
- The toner cartridge may be defective. See "Repetitive vertical defects" on page 7.15.
- If these steps do not correct the problems, contact a service representative.


## Vertical lines

AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc

If black vertical streaks appear on the page:

- The photosensitive drum inside the toner cartridge has probably been scratched. Install a new toner cartridge.

If white vertical streaks appear on the page:

- The surface of the LSU part inside the printer may be dirty. Clean the LSU (see page 6.5).

| Problem | Solution |
| :---: | :---: |
| Gray background <br> AaBbCc AaBbCc AaBbCc AaBbCc AaBbCc | If the amount of background toner shading becomes unacceptable, the procedures below may help to clear the condition: <br> - Change the paper to a lighter basis weight. See "Paper Specifications" on page A.2. <br> - Check the printer's environment; very dry (low humidity) or high humidity (higher than $80 \% \mathrm{RH}$ ) conditions can increase the amount of background shading. <br> - Install a new toner cartridge. |
| Toner smear <br> AaBbCc <br> AaBbCc <br> AaBbCc <br> AaBbCc <br> AaBbCc | - Clean the inside of the printer. See "Cleaning the Inside" on page 6.4. <br> - Check the paper type and quality. See "Paper Specifications" on page A. 2. <br> - Try installing a new toner cartridge. |
| Repetitive vertical defects <br> AaBbCc <br> AaBbCc <br> AaBbCc <br> AaBbCc <br> AaBbCc | If marks repeatedly appear on the printed side of the page at even intervals: <br> - The toner cartridge may be damaged. If a repetitive mark occurs every 95 mm or 38 mm on the page, print the cleaning sheet several times to clean the cartridge (see page 6.5 ). If you still have the same problems, install a new toner cartridge. <br> - Parts in the printer may have toner on them. If the defects occur on the back of the page, the problem will likely correct itself after a few more pages. <br> - The fusing assembly may be damaged. Contact a service representative. |


| Problem | Solution |
| :---: | :--- |
| Background scatter | $\begin{array}{l}\text { Background scatter results from bits of toner distributed on } \\ \text { the printed page. }\end{array}$ |
| - The paper may be too damp. Try printing with a different |  |
| batch of paper. Do not open packages of paper until |  |
| necessary so that the paper does not absorb too much |  |
| moisture from the air. |  |
| - If background scatter occurs on an envelope, change your |  |
| printing layout to avoid printing over areas that have |  |
| overlapping seams on the reverse side. Printing on seams |  |
| can cause this problem. |  |
| - If background scatter covers the entire surface of a printed |  |
| page, adjust the print resolution through your software |  |
| application or the printer properties. |  |$\}$| Misformed characters |
| :--- | :--- |


| Problem | Solution |
| :---: | :---: |
| Curl or wave <br> AabbCc <br> AabbCC <br> AabbCC <br> AabbCC <br> AавbCC | - Check the paper type and quality. Both high temperature and humidity will cause paper curl. See "Paper Specifications" on page A.2. <br> - Turn over the stack of paper in the paper tray. Also try rotating the paper $180^{\circ}$ in the paper tray. <br> - Open the rear output tray and try printing to the face up output tray. |
| Wrinkles or creases <br> AaEbCc AaEbCc AaBbCc AaBbCc AaBbCc | - Make sure that paper is loaded properly. <br> - Check the paper type and quality. See "Paper Specifications" on page A.2. <br> - Open the rear output tray and try printing to the face up output tray. <br> - Turn over the stack of paper in the paper tray. Also try rotating the paper $180^{\circ}$ in the tray. |
| Back of printouts dirty | - The transfer roller may be dirty. See "Cleaning the Inside" on page 6.4. <br> - Check if the toner is leaking. Clean inside the printer. |
| Black pages | - The toner cartridge may not be installed properly. Remove the cartridge and reinsert it. <br> - The toner cartridge may be defective and need replacing. Install a new toner cartridge. <br> - The printer may require repairs. Contact a service representative. |


| Problem | Solution |
| :---: | :---: |
| Loose toner <br> AaBbCc AaBbCc AçsbCc $\mathrm{A}+\mathrm{BCc}$ Aa. | - Clean the inside of the printer. <br> - Check the paper type and quality. See "Paper Specifications" on page A.2. <br> - Try installing a new toner cartridge. <br> - If the problem persists, the printer may require repairs. Contact a service representative. |
| Character Voids | Character voids are white areas within the parts of characters that should be solid black: <br> - If you are using transparencies when you experience this problem, try another type of transparency. (Because of the composition of transparency media, some character voids are normal.) <br> - You may be printing on the wrong surface of the paper. Remove the paper and turn it around. <br> - The paper may not meet paper specifications. See "Paper Specifications" on page A.2. |
| Horizontal stripes <br> AaBbCc AaBbCc AaBbCc AabbCc AaBbCc | If horizontally aligned black streaks or smears appear: <br> - The toner cartridge may be installed improperly. Remove the cartridge and reinsert it. <br> - The toner cartridge may be defective. Install a new toner cartridge. <br> - If the problem persists, the printer may require repairs. Contact a service representative. |

## Troubleshooting Error Messages

When the printer detects an error, the control panel indicator lights will indicate error messages. Find the light pattern below that matches the printer light pattern and follow the solutions to clear the error.

## Printer Light Patterns

## Light status legend

O symbol for "light off"
symbol for "light on" symbol for "light blinking"


| Error | Power off |
| :---: | :---: |
| Manual 0 |  |
| Paper 0 Data 0 | - Check the power cord and the power switch if your printer does not generate a response. <br> - Make sure that the printer is powered with the specified AC voltage. |
| Error <br> 0 | Paper out |
| $\begin{gathered} \text { Manual } \\ 0 \\ \text { Paper } \\ 0 \\ \text { Data } \\ 0 \end{gathered}$ | The printer is out of paper in the paper tray. The Paper light blinks until paper is added. <br> - Loading paper into the tray will cancel this message and allow you to continue with the print job. |

Error
Manual
Paper
0
Data
0

## Paper out in the manual feed mode

While printing in the manual feed mode, the printer is out of paper in the Manual Tray.

- Load the correct paper into the Manual Tray and press the Demo button on the control panel to print each page.


## Troubleshooting Error Messages



## Memory out



The printer memory ran out of memory in the middle of a print job. The page being printed may have been too complex for the memory capacity of the printer. Press the Cancel/ Reprint button to cancel the current job.

- Try to free some printer memory by removing any unnecessary fonts, macros, or any data currently in printer memory.
- For a temporary solution, simplify the image or print at a lower resolution.


## System error

- Reset the printer by briefly turning the printer off and back on again.
- If the error persists, contact the service representative.


## Common Windows Problems

| Problem | Possible Cause and Solution |
| :--- | :--- |
| "File in Use" message <br> appears during installation. | Quit all software applications. Remove all software from the <br> StartUp Group, then restart Windows. Reinstall the printer <br> driver. |
| "Error Writing to LPTx" <br> message appears. | - Make sure that the cables are connected correctly, the printer is <br> on, and the Data light on the control panel is on. <br> - If bi-directional communication is not turned on in the <br> driver, it will also cause this message. |
| - From the Start menu, select Settings, then Printers. |  |
| Right-click on the Samsung ML-6040 Series printer |  |
| icon and select Properties. From the Details tab, click |  |
| on Port Settings. Remove check from Check Port State |  |
| before Printing box and click OK. From Spool |  |
| Settings, select Print Directly to Printer and click OK. |  |
| Try printing again. |  |

Note: Refer to M icrosoft Windows 9x or NT 4.0 documentation that came with your PC for further information on W indows error messages.

## Appendix

This appendix provides information on the following topics:

- Printer Specifications
- Paper Specifications
- Using Your Printer with a USB Cable
- Using Your Printer with a Macintosh
- Linux Driver Installation


## Printer Specifications

| Item | Specification and Description |
| :---: | :---: |
| Print Speed | 12 PPM (A4), 12.6 PPM (Letter) |
| Resolution | True $600 \times 600 \mathrm{dpi}$ |
| First Printing Time | Less than 15 seconds |
| WarmUp Time | Less than 30 seconds |
| Power Rating | AC $100 \sim 120 \mathrm{~V}$ (USA, Canada) / $220 \sim 240 \mathrm{~V}$ ( Others), $50 / 60 \mathrm{~Hz}$ |
| Power Consumption | 350 W average during operation / Less than 12 W in power-save mode |
| Acoustic Noise | Stand by: Less than 35 dB ; Operating: Less than 48 dB |
| Toner Supply | Single cartridge |
| Toner Cartridge Life | 6,000 pages (for starter, 3,000 pages), 5\% area coverage |
| Duty Cycle | Monthly: 12,000 pages maximum |
| Weight | $11.2 \mathrm{Kg} / 24.7 \mathrm{lb}$. |
| Package Weight | Paper: 1.7 Kg <br> Plastic: 0.33 Kg |
| External Dimensions | 361 (W) $\times 409$ (D) $\times 247$ (H) mm (without options) |
| Operating Environment | Temperature: $10 \sim 32{ }^{\circ} \mathrm{C} / 50 \sim 90{ }^{\circ} \mathrm{F}$; Humidity: $20 \sim 80 \% \mathrm{RH}$ |
| Emulation | GDI |
| Fonts | 1 bitmap, 45 scalable |
| Interface Switching | Automatic (Parallel, USB) |
| Interface | - 12PPM (A4) Bidirectional Parallel Standard <br> - Modes supported: Compatible, Nibble, Byte, ECP <br> - USB Interface Standard <br> - USB 1.0 compliant <br> - 12Mbps 1 port |

## Paper Specifications

## Overview

This printer accepts a variety of media, such as cut-sheet paper (including up to $100 \%$ recycled fiber content paper), envelopes, labels, transparencies and custom-size paper. Properties such as weight, composition, grain and moisture content are important factors affecting printer performance and output quality. Paper that does not meet the guidelines outlined in this manual can cause the following problems:

- Poor print quality
- Increased paper jams
- Premature wear on the printer, requiring repairs.


## Notes:

- Some paper may meet all of the guidelines in this manual and still not produce satisfactory results. This might be the result of improper handling, unacceptable temperature and humidity levels, or other variables over which Samsung has no control.
- Before purchasing large quantities of paper, make sure that the paper meets the requirements specified in this user guide. Always test paper before buying large quantities.

CAUTION: Using paper that does not meet that stated specifications may cause problems for the printer, requiring repairs. Repairs made necessary by the use of paper not specified in this manual are not covered by the Samsung warranty or service agreements.

## Supported Sizes of Paper

| Auto Tray | Dimensions ${ }^{\text {a }}$ | Weight | Capacity ${ }^{\text {b }}$ |
| :---: | :---: | :---: | :---: |
| Letter | $8.5 \times 11 \mathrm{in} .(216 \times 279 \mathrm{~mm})$ | 16 to 28 lb Bond ( 60 to $105 \mathrm{~g} / \mathrm{m}^{2}$ ) | $\begin{gathered} 270 \text { sheets of } \\ 20 \mathrm{lb} \text { Bond } \\ \left(75 \mathrm{~g} / \mathrm{m}^{2}\right) \text { paper } \end{gathered}$ |
| A4 | $210 \times 297 \mathrm{~mm}$ (8.3 $\times 11.7 \mathrm{in}$.) |  |  |
| Executive | $7.3 \times 10.5 \mathrm{in}$. (191 X 267 mm ) |  |  |
| Legal | $8.5 \times 14 \mathrm{in} .(216 \times 356 \mathrm{~mm})$ |  |  |
| B5 (JIS) | $182 \times 257 \mathrm{~mm}$ ( $7.2 \times 10 \mathrm{in}$.) |  |  |
| Folio | $216 \times 330 \mathrm{~mm}$ (8.5 $\times 13 \mathrm{in}$.) |  |  |
| A5 | $146 \times 210 \mathrm{~mm}$ |  |  |
| A6 | $105 \times 148 \mathrm{~mm}$ |  |  |


| Manual Tray | Dimensions ${ }^{\text {a }}$ | Weight | Capacity ${ }^{\text {b }}$ |
| :---: | :---: | :---: | :---: |
| Minimum Size (custom) | $98 \times 148 \mathrm{~mm}$ ( $3.9 \times 5.83 \mathrm{in}$. | 60 to $163 \mathrm{~g} / \mathrm{m}^{2}$ Bond (16 to 43 lb ) | 1 sheets of paper |
| Maximum Size (custom) | $216 \times 356 \mathrm{~mm}$ ( $8.5 \times 14 \mathrm{in}$. |  |  |
| Transparency | Same minimum and maximum paper sizes as listed above. | $\begin{aligned} & \text { Thickness: } \\ & .10 \times .14 \mathrm{~mm} \\ & (0.0039 \times 0.0055 \mathrm{in} .) \end{aligned}$ |  |
| Labels ${ }^{\text {c }}$ |  | $\begin{aligned} & \text { Thickness: } \\ & .10 \times .14 \mathrm{~mm} \\ & (0.0039 \times 0.0055 \mathrm{in} .) \end{aligned}$ |  |
| Envelopes |  | $\text { up to } 90 \mathrm{~g} / \mathrm{m}^{2}$ (16-24 lb) |  |

a. The printer supports a wide range of media sizes. See "Printing on Card Stock or Custom-Sized Media" on page 4.15.
b. Capacity may vary depending on media weight and thickness, and environmental conditions.
c. Smoothness - 100 to 250 (Sheffield)

Note: You may experience some paper jams when using any media with a length of less than $148 \mathrm{~mm}(5.83 \mathrm{in}$.). For optimum performance, make sure you are storing and handling the paper correctly. Please refer to "Printer and Paper Storage Environment" on page A.6.

## Guidelines for Using Paper

For best results, use conventional $90 \mathrm{~g} / \mathrm{m}^{2}(24 \mathrm{lb})$ paper. Make sure the paper is of good quality, and free of cuts, nicks, tears, spots, loose particles, dust, wrinkles, voids, and curled or bent edges.

If you are unsure of what type of paper you are loading (such as bond or recycled), check the label on the package of the paper.

The following problems with paper can cause print quality deviations, jamming, or even damage to the printer.

| Symptom | Problem with Paper | Solution |
| :--- | :--- | :--- |
| Poor print quality or <br> toner adhesion <br> Problems with feeding | Too moist, too rough, too <br> smooth, or embossed; <br> faulty paper lot | Try another kind of paper, <br> between $100 \sim 250$ Sheffield, <br> $4 \sim 5 \%$ moisture content. |
| Dropout, jamming, <br> curl | Stored improperly | Store paper flat in its moisture- <br> proof wrapping. |
| Increased gray <br> background shading <br> /printer wear | Too heavy | Use lighter paper, open the rear <br> output tray. |
| Excessive curl <br> problems with feeding | Too moist, wrong grain <br> direction or short-grain <br> construction | • Open the rear output tray. <br> - Use long-grain paper. |
| Jamming, damage to | Cutouts or perforations | Do not use paper with cutouts or <br> perforations. |
| printer |  |  |

Notes:

- Do not use letterhead paper that is printed with low-temperature inks, such as those used in some types of thermography.
- Do not use raised or embossed letterhead.
- The printer uses heat and pressure to fuse toner to the paper. M ake sure that any colored paper or preprinted forms use inks that are compatible with this fusing temperature ( $200{ }^{\circ} \mathrm{C}$ or $392^{\circ} \mathrm{F}$ for 0.1 second).


## Paper Specifications

| Category | Specifications |
| :--- | :--- |
| Acid Content | $5.5 \sim 8.0 \mathrm{pH}$ |
| Caliper | $.094 \sim .18 \mathrm{~mm}(3.0 \sim 7.0$ mils $)$ |
| Curl in Ream | Flat within $5 \mathrm{~mm}(.02 \mathrm{in})$. |
| Cut Edge Conditions | Cut with sharp blades with no visible fray. |
| Fusing Compatibility | Must not scorch, melt, offset, or release hazardous <br> emissions when heated to $200^{\circ} \mathrm{C}\left(392^{\circ} \mathrm{F}\right)$ for .1 <br> second. |
| Grain | Long Grain |
| Moisture Content | $4 \% \sim 6 \%$ by weight |
| Smoothness | $100 \sim 250$ Sheffield |

## Paper Output Capacity

| Output Tray | Capacity |
| :---: | :---: |
| Top output (Face-down) tray | 250 sheets of 20 lb bond $\left(75 \mathrm{~g} / \mathrm{m}^{2}\right)$ paper |
| Rear output (Face-up) tray | 100 sheets of 20 lb bond $\left(75 \mathrm{~g} / \mathrm{m}^{2}\right)$ paper |

## Printer and Paper Storage Environment

Ideally, the printer and paper storage environment should be at or near room temperature, and not too dry or humid. Remember that paper absorbs and loses moisture rapidly.

Heat works with humidity to damage paper. Heat causes the moisture in paper to evaporate, while cold causes it to condense on the sheets. Heating systems and air conditioners remove most of the humidity from a room. As paper is opened and used, it loses moisture, causing streaks and smudging. Humid weather or water coolers can cause the humidity to increase in a room. As paper is opened and used it absorbs any excess moisture, causing light print and dropouts. Also, as paper loses and gains moisture it can distort. This can cause paper jams.

As a result, paper storage and handling are as important as the paper-making process itself. Paper storage environmental conditions directly affect the feed operation.

Care should be taken not to purchase more paper than can be easily used in a short time (about 3 months). Paper stored for long periods may experience heat and moisture extremes, which can cause damage. Planning is important to prevent damage to a large supply of paper.

Unopened paper in sealed reams can remain stable for several months before use. Opened packages of paper have more potential for environment damage, especially if they are not wrapped with a moisture-proof barrier.

The paper storage environment should be properly maintained to ensure optimum printer performance. The required condition is $20^{\circ}$ to $24^{\circ} \mathrm{C}\left(68^{\circ}\right.$ to $\left.75^{\circ} \mathrm{F}\right)$, with a relative humidity of $45 \%$ to $55 \%$. The following guidelines should be helpful when evaluating the paper's storage environment:

- Paper should be stored at or near room temperature.
- The air should not be too dry or too humid (due to the hygroscopic properties of paper).
- The best way to store an opened ream of paper is to rewrap it tightly in its moisture-proof wrapping. If the printer environment is subject to extremes, unwrap only the amount of paper to be used during the day's operation to prevent unwanted moisture changes.


## Envelopes

Envelope construction is critical. Envelope fold lines can vary considerably, not only between manufacturers, but also within a box from the same manufacturer. Successful printing on envelopes depends upon the quality of the envelopes. When selecting envelopes, consider the following components:

- Weight: The weight of the envelope paper should not exceed $90 \mathrm{~g} / \mathrm{m}^{2}$ (24 lb) or jamming may occur.
- Construction: Prior to printing, envelopes should lie flat with less than 6 mm ( 0.25 in .) curl, and should not contain air.
- Condition: Envelopes should not be wrinkled, nicked, or otherwise damaged.
- Temperature: You should use envelopes that are compatible with the heat and pressure of the printer.
- Size: You should only use envelopes larger than $100 \times 148$ mm ( $3.97 \times 5.83 \mathrm{in}$.).

Notes:

- Use only the M anual Tray to print envelopes.
- You may experience some paper jams when using any media with a length less than 148 mm ( 5.83 in .). This may be caused by paper that has been affected by environmental conditions. For optimum performance, make sure you are storing and handling the paper correctly. Please refer to "Printer and Paper Storage Environment" on page A.6.

Envelopes with Double Side Seams

Double side-seams construction has vertical seams at both ends of the envelope rather than diagonal seams. This style may be more likely to wrinkle. Be sure the seam extends all the way to the corner of the envelope as illustrated below.


Envelopes with Adhesive Strips or Flaps

Envelopes with a peel-off adhesive strip or with more than one flap that folds over to seal must use adhesives compatible with the heat and pressure in the printer. The extra flaps and strips might cause wrinkling, creasing, or even jams and may even damage the fuser.

Envelope Margins The following gives typical address margins for a commercial \#10 or DL envelope.

| Type of Address | Minimum | Maximum |
| :--- | :--- | :---: |
| Return address | $15 \mathrm{~mm}(0.6 \mathrm{in})$. | $15 \mathrm{~mm}(0.6 \mathrm{in})$. |
| Delivery address | $51 \mathrm{~mm}(2 \mathrm{in})$. | $89 \mathrm{~mm}(3.5 \mathrm{in})$. |

## Notes:

- For best print quality, position margins no closer than 15 mm ( 0.6 in .) from the edges of the envelope.
- Avoid printing over the area where the envelope's seams meet.

Envelope Storage Proper storage of envelopes helps contribute to print quality. Envelopes should be stored flat. If air is trapped in an envelope, creating an air bubble, then the envelope may wrinkle during printing. See "Printing on Envelopes" on page 4.9.

## CAUTIONS:

-To avoid damaging the printer, use only labels recommended for laser printers.

- To prevent serious jams, always use the M anual Tray to print labels and alw ays use the rear output tray.
- Never print on the same sheet of labels more than once and never print on a partial sheet of labels.

When selecting labels, consider the quality of each component:

- Adhesives: The adhesive material should be stable at $200^{\circ} \mathrm{C}\left(392^{\circ} \mathrm{F}\right)$, the printer's fusing temperature.
- Arrangement: Only use labels with no exposed backing between them. Labels can peel off sheets with spaces between the labels, causing serious jams.
- Curl: Prior to printing, labels must lie flat with no more than 16 mm (. 61 in .) of curl in any direction.
- Condition: Do not use labels with wrinkles, bubbles, or other indications of separation.

See "Printing on Labels" on page 4.12.

## Transparencies

Transparencies used in the printer must be able to withstand $200^{\circ} \mathrm{C}\left(392^{\circ} \mathrm{F}\right)$, the printer's fusing temperature.

CAUTION: To avoid damaging the printer, use only transparencies recommended for use in laser printers.

See "Printing on Transparencies" on page 4.13.

## Using Your Printer with a USB Cable

If you have a USB (Universal Serial Bus) port enabled on your computer, and if your computer is running Windows 98, you can connect your ML-6040 series printer to the USB chain of devices.

Note: connecting the printer to the USB port of the computer requires a certified USB cable. You will need to buy the USB 1.0 compliant cable.

## Installing the Printer Softw are

## 1. Connect printer with USB cable and install USB driver

1 Make sure that both the printer and computer are turned $\mathbf{O N}$.

2 Insert the CD-ROM which came with your printer into the CD-ROM drive.

3 Plug one end of the USB cable into the USB port on the printer.


4 Plug the other end into the USB port on the computer.

5 The Add New Hardware Wizard dialog box appears. Click Next.


6 Check Search for the best driver for your device and click Next.


7 Check CD-ROM drive and click Browse, then choose $\mathbf{x : \ U S B}$ ( where $\mathbf{x}$ is the drive letter for the CD-ROM drive).


8 Click Next. The USB driver will be installed.


9 Follow the instructions on the screen to complete the installation.
2. Set your PC printer port

1 From the Start menu, select Settings, then select Printers.


2 Select the Samsung ML-6040 Series printer icon in the Printers folder.

3 Select Properties from the File menu.
4 Click the Details tab. Select SSUSB: (ML-6040) in the Print to the following port box. Click OK. The setup is now completed.


## Frequently Asked Questions About USB



Universal Serial Bus (USB) makes it easy to connect devices to your computer without having to open your PC. USB uses a standard port and plug combination for connecting devices like printers, modems, scanners, and digital cameras. It also offers the benefit of being able to easily add, remove, and move devices.

Because USB is a relatively new technology, we recommended using a parallel printing connection. However, USB is an option to customers who want to print from Windows 98, Macintosh using a USB cable. If your computer's USB port is enabled and properly setup, you can connect your printer to it or to a chain of USB devices via a USB cable.

## How can I determine if my computer's USB port is enabled?

- 

1 In Windows 98, select Start $\rightarrow$ Settings $\rightarrow$ Control Panel.
2 Double-click the System icon.
3 Click the Device Manager tab.
4 Click the plus (+) icon before the Universal Serial Bus Controller item.

If you see a USB host controller and a USB root hub listed, USB is properly enabled. If you have multiple hubs on the USB chain, try connecting your printer to a different hub or to another USB device. Also, make sure the cable connections are firm. (USB hubs are hardware devices into which you can plug multiple USB cables.)

If you do not see these devices listed, refer to your computer's documentation or contact the manufacturer for more information on enabling and setting up USB. Remember, you can always use a parallel cable to connect your printer's parallel port to your computer. (If you decide to switch to a parallel cable connection, you may need to remove and reinstall the printer software. )

## Can other users on my USB chain print to my ML-6040 printer?

- 

Yes. Windows 98 allows you to "share" your printer using software settings on your computer. After others on the USB chain have installed the printer software for your specific printer, they can print to your shared printer.

After I install my printer, why isn't my ML-6040 printer assigned to an LPT printer port in the Print dialog box of my software application?

USB uses a different naming convention for USB devices. After the printer has been installed, you see SSUSB:(your printer name) instead of LPT.


When operated on a USB chain, your printer may become slower if other USB devices are being used while you're printing. For optimal print performance, avoid using other devices in the USB chain while printing.

## Using Your Printer with Madintosh

Your printer supports Macintosh systems with a built-in USB interface. When you print a file from Macintosh, you can use the PCL driver to support your printer's major printing features.

## System Requirements

To use your ML-6040 printer and its software with a Macintosh, your system should have:

## Macintosh Hardware Requirement:

- One of the following Macintosh models:
-Power Macintosh series (for network connection only)
-Power Macintosh G3, G4
-iMac series
-iBook series, PowerBook series
- USB interface


## Macintosh System Requirement:

System 8.6 or later

## Installing Softw are for Macintosh

Connecting to Macintosh


You can connect the printer to your Macintosh using the USB interface.

USB cable is not provided in your printer. Purchase a certified USB 1.0 compliant cable.

1 Turn off the printer and computer.

2 Hold the USB cable so the icon faces up and connect it to your printer's USB connector.


3 Connect the other end of the cable to an available USB port on your Macintosh computer. If you have any connecting problems, please refer to your computer documentation.

Note: If you are using a USB hub, connect the printer's cable to the first tier of the hub or the printer may malfunction. If the printer doesn't w ork with the hub, connect it directly to the USB port.

## Installing Softw are 1 Turn on your computer and printer.

2 Insert the CD-ROM which came with your printer into the CDROM drive.

3 Double-click Samsung ML-6040 on your Macintosh desktop.

4 Select the correct language, then click Continue.

## 5 Click Install.

6 After installation is complete, click Quit.

## Choosing PCL Driver 1 From the Apple menu, select Chooser.

2 From the left pane of the Chooser window, click SAMSUNG PCL. Then the Samsung PCL driver name will appear in the right pane of the Chooser window.

3 Click the Samsung PCL driver, and close the Chooser window.

4 You see the message box indicating that you have changed your current printer. Click OK.

5 A Samsung PCL printer icon will be created on your desktop.

## Printing from a M acintosh

When you print with a Macintosh, you need to check the printer software setting in each application you use. Follow these steps to print from a Macintosh:

1 Open a Macintosh application and select a file you want to print.

2 Open the File menu, and click Page Setup (Document Setup in some applications). You will see the Page Setup dialog box.

3 Choose your paper size, orientation, paper type and other options and click OK.


Choose Watermark if you want to add a watermark to each page in your document to emphasize its purpose or indicate how it should be handled. For details on the watermark option, see page 5.21.


4 Now open the File menu and click Print. You see the main printer settings dialog box.

5 Choose the number of copies and indicate which pages you want to print. For advanced printing features, select the desired option. For details, see page A. 21 .


Select the desired option for advanced printing features.

5AMSUN6 PCL Printer

```
General
                                    Darkness/Qaality
                                    tayout
                                    Color
                                    Backgraund Printing
                                    Paper Seurce
                                    Microsoft Word
```

6 Click Print when you are finished checking your settings.

## Advanced Printing

The Page Setup dialog box contains five categories of page setup properties. Listed below is the name of each property.
-Darkness/Quality
-Layout
-Color
-Background Printing

- Paper Source

Figures below display each property in the Page Setup dialog box.

## Darkness/ Quality



Layout


## Using Your Printer with Madintosh



## Background Printing

SAMSUNE PCL Printer
Background Printing


Select a priority for your print job in the queue of jobs waiting to print, by clicking one of the following:

- Normal to print in the order the job is received.
- Urgent to print before any Normal priority job.
- Print at: to print at the specific time you enter in the day and time in the fields to the right.
- Put document on hold to hold the print job in the print queue until you are ready to release it.


## Paper Source



## Linux Driver Installation

This Linux driver is designed for the Samsung ML-6040 Series printer and supports Linux Red Hat 6.0 or higher and Intel Linux. If your Linux version is not included, this driver might not work properly.

Install Setup Script file configuration
a. /cdrom/linux/install/install.sh
b. /cdrom/linux/install/ssprt.db
c. /cdrom/linux/install/readme.txt

## Installation

To install the driver, open the $x$ terminal screen and take the following steps:

## 1. Mount the CD-ROM

drive.

Note: To mount the CD-ROM drive, you must be a super user or must be authorized to mount the CD-ROM by the super user. If you fail to mount the CD-ROM drive, ask the system administrator.

To mount the CD-ROM drive:
1 Insert the Samsung ML-6040 CD-ROM into the CD-ROM drive.

2 Mount the CD-ROM drive under a directory like / mnt in order to access the files on the CD-ROM:
> mount -t iso9660 / dev/ cdrom / mnt/ cdrom
2. Install setup script. For details on installing the setup script, refer to the / cdrom/ linux/ readme.txt file.

Add the driver to the printer list by typing in: / cdrom/ linux>install.sh (or) / cdrom/ linux>install.sh (if the path of the current working directory is not determined.)

## 3. Set up the printer filter. To set up:

1 Run printtool at x terminal.
2 To add the printer driver, click the Add button.
3 In the Add a Printer Entry window, decide the printer type you will use. Select Local Printer if you have a PCconnected printer.

4 Click the $\mathbf{O K}$ button.
5 If the Info button appears, ignore it, then click the OK button.

6 The Edit xxxx Entry window opens (where xxxx is the printer type you have selected at step 3).

If you are not an advanced user, do not change the Names/ Spool Directory/ File Limit in Kb/ Printer Device option.

7 Click the Select button in the Input Filter to access filter setup.

8 Select Samsung Printer PCL 5e Compatible for the Printer Type item. Then select the default resolution and paper size.

9 To save the setting, press the $\mathbf{O K}$ button.
10 In the Edit xxxx Entry window, press the $\mathbf{O K}$ button to complete the printer driver installation.

11 You can find that the printer driver is added to the driver window. Select Quit from the PrintTool menu.

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## W

watermark, print 5.21
home hitp:/www.samsungprinter.com

